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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/667,722	09/22/2003	Lcon Benhamou	1400.1375150	9692
25697 75	90 06/16/2006		EXAMINER	
ROSS D. SNYDER & ASSOCIATES, INC.			PUENTE, EMERSON C	
PO BOX 16407 AUSTIN, TX	=		ART UNIT PAPER NUMBER	
			2113	
			DATE MAILED: 06/16/2006	5

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)		
	10/667,722	BENHAMOU ET AL.		
Office Action Summary	Examiner	Art Unit		
	Emerson C. Puente	2113		
The MAILING DATE of this communication app	l e	· · -		
Period for Reply				
A SHORTENED STATUTORY PERIOD FOR REPL' WHICHEVER IS LONGER, FROM THE MAILING D Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication If NO period for reply is specified above, the maximum statutory period of Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin will apply and will expire SIX (6) MONTHS from to cause the application to become ABANDONE	N. nely filed the mailing date of this communication. (D. (35 U.S.C. § 133).		
Status				
1) Responsive to communication(s) filed on 22 S	eptember 2003.			
2a) ☐ This action is FINAL . 2b) ☑ This	This action is FINAL . 2b) This action is non-final.			
3) Since this application is in condition for alloward	nce except for formal matters, pro	secution as to the merits is		
closed in accordance with the practice under E	Ex parte Quayle, 1935 C.D. 11, 48	53 O.G. 213.		
Disposition of Claims				
4)⊠ Claim(s) <u>1-55</u> is/are pending in the application.				
4a) Of the above claim(s) is/are withdraw	wn from consideration.			
5)⊠ Claim(s) <u>37-44</u> is/are allowed.				
6) Claim(s) <u>1-3,5,6,14,19,23-33,35,45-48,50 and</u>	<u>52-55</u> is/are rejected.			
7) Claim(s) <u>4,7-13,15-18,20-22,34,36,49 and 51</u> i	· ·			
8) Claim(s) are subject to restriction and/o	r election requirement.			
Application Papers				
9) The specification is objected to by the Examine	er.			
10)⊠ The drawing(s) filed on 22 September 2003 is/a	are: a)⊠ accepted or b)□ objec	ted to by the Examiner.		
Applicant may not request that any objection to the	drawing(s) be held in abeyance. See	e 37 CFR 1.85(a).		
Replacement drawing sheet(s) including the correct	ion is required if the drawing(s) is ob	jected to. See 37 CFR 1.121(d).		
11) ☐ The oath or declaration is objected to by the Ex	caminer. Note the attached Office	Action or form PTO-152.		
Priority under 35 U.S.C. § 119				
12) ☐ Acknowledgment is made of a claim for foreign a) ☐ All b) ☐ Some * c) ☐ None of:	priority under 35 U.S.C. § 119(a))-(d) or (f).		
1. Certified copies of the priority document	s have been received.			
2. Certified copies of the priority document	s have been received in Applicati	on No		
3. Copies of the certified copies of the prior		ed in this National Stage		
application from the International Bureau	, , , ,			
* See the attached detailed Office action for a list	of the certified copies not receive	d.		
Attachment(s)				
1) Notice of References Cited (PTO-892)	4) Interview Summary			
 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date <u>2/17/05</u>. 	Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ate Patent Application (PTO-152)		
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DETAILED ACTION

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Claims 1-55 have been examined.

This action is made Non-Final.

Claim Objections

Claims 3, 50, 52, and 55 are objected to because of the following informalities:

In regards to claim 3, please change "has been met" to "has met" (see line 7 of claim)

In regards to claim 55, please change "has been met" to "has met" (see line 11 of claim)

In regards to claim 50 and 52, applicant is advised that should claim 50 be found allowable, claim 52 will be objected to under 37 CFR 1.75 as being a substantial duplicate thereof. When two claims in an application are duplicates or else are so close in content that they both cover the same thing, despite a slight difference in wording, it is proper after allowing one claim to object to the other as being a substantial duplicate of the allowed claim. See MPEP § 706.03(k).

Appropriate correction is required.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1-3, 5, 6, 14, 19, 23, 27, 29-33, 35, 45-48, 50, 52, 54, and 55 are rejected under 35 U.S.C. 102(e) as being anticipated by US Patent No. 6,978,398 of Harper et al. referred hereinafter "Harper '398".

Examiner notes that Harper '398 (see column 1 lines 8-12) incorporates by reference US Patent No. 6, 629,266 of Harper et al. referred hereinafter "Harper '266", which is introduced in the rejection below

In regards to claims 1 and 54, Harper '398 discloses:

identifying a failure predicted one of a plurality of protected system elements (see column 2 lines 19-23); and

implementing a protection switching operation for switching designated information from the failure predicted one of said protected system elements to a protection system element (see column 2 lines 23-26).

In regards to claim 2, Harper '398 discloses:

wherein identifying the failure predicted one of said protected system elements includes assessing at least one of a plurality of failure prediction parameters of said protected system elements for determining when a failure prediction condition has been met by one of said protected system elements (see column 9 lines 15-20 of incorporated by reference Harper '266).

In regards to claim 3, Harper '398 discloses:

monitoring a failure prediction parameter of at least one of the plurality of protected system elements (see column 9 lines 15-20 of incorporated by reference Harper '266); and

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correlating a present state of the failure prediction parameter to a failure prediction criterion for determining whether the failure prediction parameter has been met a failure prediction condition (see column 9 lines 15-20 of incorporated by reference Harper '266).

In regards to claim 5, Harper '398 discloses:

wherein the monitoring the failure prediction parameter further comprises bridging the protection system element across the at least one of the plurality of the protected system elements (see column 6 lines 13-17).

In regards to claim 6, Harper '398 discloses:

wherein the monitoring the failure prediction parameter further comprises sequentially bridging the protection system element across each of the plurality of the protected system elements (see column 6 lines 13-17).

In regards to claim 14, Harper '398 discloses:

wherein identifying the failure predicted one of said protected system elements includes determining that a failure prediction parameter corresponding to a service agreement parameter for one of said protected system elements has declined to a predetermined minimal acceptable service agreement parameter level (see column 9 lines 10-15 and column 10 lines 12-15 of incorporated by reference Harper '266).

In regards to claim 19, Harper '398 discloses:

downloading service information of the failure predicted one of said protected system elements to the protection system element after identifying the failure predicted one of said protected system elements (see column 6 lines 14-17);

confirming failure of the first failure predicted one of said protected system elements (see column 6 lines 18-25); and

switching communication service supported by the failure predicted one of said protected system elements for being supported by to the protection system element after confirming said failure (see column 6 lines 21-25).

In regards to claim 23, Harper '398 discloses:

wherein the protection system element provides protection switching functionality exclusively for all of said protected system elements (see column 6 lines 35-40).

In regards to claim 27, Harper '398 discloses:

wherein identifying the failure predicted one of said protected system elements includes determining that a failure prediction parameter associated with the failure predicted one of said protected system elements has exceeded a failure prediction parameter first threshold limit (see column 9 lines 6-10 and 25-28 of incorporated by reference Harper '266).

In regards to claim 29, Harper '398 discloses:

wherein the protection system element provides protection switching functionality exclusively for all of said protected system elements (see column 6 lines 35-37).

In regards to claim 30, Harper '398 discloses:

configuring protection switching variables associated with the protection switching operation (see column 9 lines 7-14 of incorporated by reference Harper '266).

In regards to claim 31, Harper '398 discloses:

associating each one of said protected system elements with the protection system element (see column 6 lines 39-42); and

specifying failure prediction criterion for each of said protected system elements (see column 9 lines 7-14 of incorporated by reference Harper '266).

In regards to claim 32, Harper '398 discloses:

wherein specifying said failure prediction criterion includes specifying a first type of failure prediction criterion for a first portion of said protected system elements and a second type of failure prediction criterion for a second portion of said protected system elements (see column 9 lines 6-10 of incorporated by reference Harper '266).

In regards to claim 33, Harper '398 discloses:

wherein specifying said failure prediction criterion includes specifying said failure prediction criterion on a per protected system element basis (see column 4 lines 10-15 and column 6 lines 32-37).

In regards to claim 35, Harper '398 discloses:

wherein identifying the failure predicted one of said protected system elements includes assessing a protection switching operation initiation notification issued via a system administrator user interface (see column 4 lines 20-22 of incorporated by reference Harper '266).

In regards to claim 45, Harper '398 discloses:

facilitating a protection switching configuration operation wherein a failure prediction condition for at least a portion of a plurality of protected system elements is defined (see column 2 lines 23-26);

facilitating a failure confirmed protection switching operation in response to identifying that the failure prediction condition for one of said protected has been met during operation of said protected system elements (see column 6 lines 18-25); and

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facilitating an administrator-initiated protection switching operation in response to receiving an administrator-issued protection switching initiation notification (see column 4 lines 20-22 of incorporated by reference Harper '266).

In regards to claim 46, Harper '398 discloses:

associating each one of said protected system elements with the protection system element (see column 6 lines 39-42); and

specifying failure prediction criterion for each of said protected system elements (see column 9 lines 7-14 of incorporated by reference Harper '266).

In regards to claim 47, Harper '398 discloses:

wherein specifying said failure prediction criterion includes specifying a first type of failure prediction criterion for a first portion of said protected system elements and a second type of failure prediction criterion for a second portion of said protected system elements (see column 9 lines 6-10 of incorporated by reference Harper '266).

In regards to claim 48, Harper '398 discloses:

wherein specifying said failure prediction criterion includes specifying said failure prediction criterion on a per protected system element basis (see column 4 lines 10-15 and column 6 lines 32-37).

In regards to claims 50 and 52, Harper '398 discloses:

downloading service information of the failure predicted one of said protected system elements to the protection system element after identifying the failure predicted one of said protected system elements (see column 2 lines 23-26);

confirming failure of the first failure predicted one of said protected system elements (see column (see column 6 lines 20-25); and

switching communication service supported by the failure predicted one of said protected system elements for being supported by to the protection system element after confirming said failure (see column 6 lines 20-25).

In regards to claim 55, Harper '398 discloses a data processor program processable by a data processor and an apparatus from which the data processor program is accessible by the data processor, wherein the data processor program is capable of enabling the data processor to facilitate:

monitoring a failure prediction parameter of at least one of the plurality of protected system elements (see column 9 lines 15-20 of incorporated by reference Harper '266);

correlating a present state of the failure prediction parameter to a failure prediction criterion for determining whether one of said protected system elements has been met a failure prediction condition, thereby identifying a failure predicted one of a plurality of protected system elements when the failure prediction condition is met (see column 9 lines 15-20 of incorporated by reference Harper '266);

downloading service information of the failure predicted one of said protected system elements to the protection system element after identifying the failure predicted one of said protected system elements (see column 2 lines 23-26);

confirming failure of the failure predicted one of said protected system elements (see column 2 lines 23-26);

switching communication service supported by the failure predicted one of said protected system elements for being supported by to the protection system element after confirming said failure (see column 6 lines 20-25).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. § 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 24, 25, 26, 28, and 53 are rejected under 35 U.S.C. § **103(a)** as being unpatentable over Harper '398 (which incorporates by reference Harper '398 '266) in view of US Patent No. 6,771,440 of Smith.

In regards to claim 24, Harper '398 discloses:

wherein identifying the failure predicted one of said protected system elements includes determining that a failure prediction parameter associated with the failure predicted one of said protected system elements has exceeded a failure prediction parameter first threshold limit (see column 9 lines 6-10 and 25-28 of incorporated by reference Harper '266);

Harper further discloses said switching communication service is initiated in response to determining the protected system element has failed. Harper discloses if it is determined that the primary node has failed, then the process continues at which time the secondary node becomes the primary node (see column 6 lines 21-25).

However, Harper '398 fails to explicitly disclose:

said switching communication service is initiated in response to the failure prediction parameter exceeding a failure prediction parameter second threshold limit different than the failure prediction parameter first threshold limit.

Smith discloses a system wherein a first threshold triggers a predictive failure analysis and a second threshold greater than the first threshold signifies a failure (see column 6 lines 6-20).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to include a second threshold that signifies a failure in addition to a first threshold that predicts a failure, thus indicating said switching communication service is initiated in response to the failure prediction parameter exceeding a failure prediction parameter second threshold limit different than the failure prediction parameter first threshold limit. A person of ordinary skill in the art would have been motivated to combine the teaching because Harper discloses a first threshold that predicts a failure is to follow (see column 9 lines 7-14 and lines 25-30 of incorporated by reference Harper '266) and is further concerned with signifying a system element has failed (see column 6 lines 5-25) and having a second threshold that signifies a failure, as per teachings of Smith (see column 6 lines 6-20), provides a known and suitable means to signifying the system element has failed.

In regards to claim 25, Smith discloses:

wherein the failure prediction first threshold limit is associated with a first level of failure probability and the failure prediction second threshold limit is associated with a second level of failure probability higher than the first level of failure probability (see column 6 lines 12-13).

In regards to claim 26 and 53, Harper '398 discloses:

wherein identifying the failure predicted one of said protected system elements includes determining that a failure prediction parameter associated with the failure predicted one of said protected system elements has exceeded a failure prediction parameter first threshold limit (see column 9 lines 6-10 and 25-28 of incorporated by reference Harper '266);

Harper further discloses confirming failure includes determining the protected system element has failed (see column 6 lines 21-25).

However, Harper '398 fails to disclose:

confirming failure includes determining that the failure prediction parameter has exceeded a failure prediction parameter second threshold limit different than the failure prediction parameter first threshold limit.

Smith discloses a system wherein a first threshold triggers a predictive failure analysis and a second threshold greater than the first threshold signifies a failure (see column 6 lines 6-20).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to include a second threshold that signifies a failure in addition to a first threshold that predicts a failure, thus indicating confirming failure includes determining that the failure prediction parameter has exceeded a failure prediction parameter second threshold limit different than the failure prediction parameter first threshold limit. A person of ordinary skill in the art would have been motivated to combine the teaching because Harper discloses a first threshold that predicts a failure is to follow (see column 9 lines 7-14 and lines 25-30 of incorporated by reference Harper '266) and is further concerned with signifying a system element has failed (see

column 6 lines 5-25) and having a second threshold that signifies a failure, as per teachings of Smith (see column 6 lines 6-20), provides a known and suitable means to signifying the system element has failed.

In regards to claim 28, Harper '398 discloses all the claimed limitations except:

wherein implementing said protection switching operation is performed in response to determining that the failure prediction parameter has exceeded a failure prediction parameter second threshold limit different than the failure prediction parameter first threshold limit.

Smith discloses a system wherein a first threshold triggers a predictive failure analysis and a second threshold greater than the first threshold signifies a failure (see column 6 lines 6-20).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to include a second threshold that signifies a failure in addition to a first threshold that predicts a failure, thus indicating wherein implementing said protection switching operation is performed in response to determining that the failure prediction parameter has exceeded a failure prediction parameter second threshold limit different than the failure prediction parameter first threshold limit. A person of ordinary skill in the art would have been motivated to combine the teaching because Harper discloses a first threshold that predicts a failure is to follow (see column 9 lines 7-14 and lines 25-30 of incorporated by reference Harper '266) and is further concerned with signifying a system element has failed (see column 6 lines 5-25) and having a second threshold that signifies a failure, as per teachings of Smith (see column 6 lines 6-20), provides a known and suitable means to signifying the system element has failed.

Allowable Subject Matter

Claims 4, 7-13, 15-18, 20-22, 34, 36, 49 and 51 objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Claims 37-44 are allowable over the prior art of records.

The following is an Examiner's statement of reasons for the indication of allowable subject matter: Claims 37 is allowable over the prior art of record because the Examiner found neither prior art cited in its entirety, nor based on the prior art, found any motivation to combine any of the said prior arts.

The reason for allowance for claims 37 is the inclusion of determining that a protection switching priority among a collection of failure predicted system elements applies to the failure predicted one of said protected system elements and downloading service information of the failure predicted one of said protected system elements to the protection system element after identifying the failure predicted one of said protected system elements, wherein downloading said service information is performed after determining that the protection switching priority applies to the failure predicted one of said protected system elements in conjunction with the rest of the limitation set forth in the claim.

The remaining claims, not specifically mentioned, are allowed because they are dependent upon one of the claim mentioned above.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue

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fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for

Allowance.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's

disclosure.

See PTO 892.

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Emerson C Puente whose telephone number is (571) 272-3652.

The examiner can normally be reached on 8-5 M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Robert W Beausoliel can be reached on (571) 272-3645. The fax phone number for

the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

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system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

ecp

6/11/06

Robert Standing BRANCHER